

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Bolster II Desiccant
Pest Control Product Number: 33743
Product Use: Agrochemicals/Herbicide
Manufacturer/Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7
www.ipco.ca
Effective Date: 20/04/2020
This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:
Acute Toxicity (Inhalation) Category 3
Acute Toxicity (Oral) Category 4
Corrosive to Metals Category 1
Eye Irritation Category 2B
Specific Target Organ Toxicity (STOT) Single Exposure Category 3
Specific Target Organ Toxicity (STOT) Repeated Exposure Category 1

Pictograms:



Signal word: **Danger**
Hazard statements: May be corrosive to metals. Harmful if swallowed. Causes eye irritation. Toxic if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement: Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if inhaled. Call a POISON CENTER/doctor if you feel unwell. Specific treatment: See Section 4 of this SDS. Rinse mouth. If eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material-damage.

Other hazards: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant. To avoid risk to human health and the environment, comply with the instructions for use. Flammable hydrogen gas may be formed on contact with aluminum. If spilled and allowed to stand, product can dry to a highly irritating dust

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3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Diquat dibromide (6,7-dihydrodipyrido[1,2-a-2,1'-C]pyrazinedilum dibromide	85-00-7	39.5%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID MEASURES

General:	IF POISONING IS SUSPECTED, immediately contact the poison information center, doctor or nearest hospital. Have the product container, label or Safety Data Sheet with you, a poison control center or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.
Inhalation:	Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for treatment advice.
Skin contact:	Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with running water for a minimum of 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye contact:	Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.
Ingestion:	If swallowed, immediately contact a poison control center, doctor or nearest hospital for treatment advice. Have person sip a glass of water if able to do so. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.
Most important symptoms and effects, both acute and delayed:	Inflammation of the mouth, throat and esophagus. Gastrointestinal discomfort. Diarrhea. Toxic if inhaled. Harmful if swallowed. Causes eye irritation. Symptoms may develop gradually. Severe damage may be caused by apparently trivial contact. Causes damage to organs through prolonged or repeated exposure. May cause respiratory irritation.
Indication of any immediate medical attention and special treatment needed:	Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children) or Bentonite Clay (100 to 150 g for adults or 2 g/kg body weight for children), mixed with a purgative (MgSO ₄ or mannitol). Maintain and monitor electrolyte and fluid status daily. Consider hemodialysis or hemoperfusion using charcoal column. Note: The use of gastric lavage without administration of an absorbent has not shown any clinical benefit. Eye Contact: Symptoms may develop gradually. Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should continue until complete healing has occurred. To be effective, treatment for ingestion of the product must begin immediately. Treatment consists of binding the active ingredient, diquat, in the gut with suspensions of activated charcoal or bentonite clay to enhance elimination and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

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5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist. Cool closed containers exposed to fire with water spray.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread the fire.
Specific hazards arising from the product:	Flammable hydrogen gas may be formed on contact with aluminum. If the concentrate is spilled and allowed to stand, it can dry to a highly irritating dust. Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
Special Protective equipment and Precautions for firefighters:	Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use adequate ventilation and equipment and wear clothing as described in Section 8 and/or the product label.
Environmental precautions:	Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.
Methods and materials for containment and clean up:	Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

7: HANDLING AND STORAGE

Precautions for safe handling:	<p>This product reacts with aluminum to produce flammable hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass. If the concentrate is spilled and allowed to stand, it can dry to a highly irritating dust.</p> <p>KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours, dust or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.</p>
Conditions for safe storage including any incompatibilities:	Store in original container in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Refer to the product label for specific storage recommendations, including minimum storage temperature and freeze/thaw stability. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

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8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

CONSULT THE PRODUCT LABEL FOR COMMERCIAL AND/OR ON-FARM APPLICATIONS.

Control parameters:

Chemical name	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS
Diquat dibromide (85-00-7)	Not established	0.5 mg/m ³ TWA (inhalable); 0.1 mg/m ³ TWA (respirable)	0.5 mg/m ³ TWA (total) (AB/BC/ON/QC); 0.1 mg/m ³ TWA (respirable) (AB/BC/ON/QC)	No	Not established

Appropriate engineering controls:

If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV (threshold limit value). Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

Individual Protection Measures:

Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

Eye protection:

Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Skin protection:

Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation:

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Ingestion:

Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Formulation Type:	Solution concentrate
Physical State:	Liquid
Color:	Dark brown
Odor:	Odorless
Odor threshold:	No data available
pH:	4-6
Melting point:	Not applicable
Freezing point:	-7°C
Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid/gas):	Not applicable

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Lower Explosive limit:	Not applicable
Upper Explosive Limit:	Not applicable
Vapour pressure:	Diquat dibromide: 7.50 x 10 ⁻⁸ mmHg @ 20 °C.
Vapour Density:	No data available
Relative density:	1.20 g/mL @ 20 °C.
Solubility:	Diquat dibromide: Miscible @ 20 °C, pH 7 (water).
Partition Coefficient (n-octanol water):	Diquat dibromide: - 4.6
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	2.3 mPa·s @ 20 °C.
Other information:	Not applicable

10: STABILITY AND REACTIVITY

Reactivity:	Not reactive.
Chemical Stability:	Stable under normal use and storage conditions.
Possibility of hazardous reactions:	This product reacts with aluminum to produce flammable hydrogen gas. If the concentrate is spilled and allowed to stand, it can dry to a highly irritating dust.
Conditions to avoid:	Do not mix or store in containers or systems made of aluminum or having aluminum fittings. Spray solutions should not be mixed, stored, or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.
Incompatible Materials:	Corrosive to aluminum. Strong alkalis and anionic wetting agents (e.g. alkyl and alkylaryl sulfonates).
Hazardous decomposition products:	Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

11: TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Dermal, inhalation, oral.
Symptoms of Acute Exposure:	Inflammation of the mouth, throat and esophagus. Gastrointestinal discomfort. Diarrhea. Toxic if inhaled. Harmful if swallowed. Causes eye irritation.
Potential Health effects:	Causes damage to organs through prolonged or repeated exposure. May cause respiratory irritation.

Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation
Diquat dibromide (85-00-7)	Female Rat: 886 mg/kg body weight	Rat: > 5,050 mg/kg body weight	Rat: > 0.62 mg/L air – 4 hours

Eye Contact:	Mildly irritating (Rabbit)
Skin Contact:	Slightly irritating (Rabbit)
Skin sensitization:	Not a sensitizer (Guinea Pig)
STOT - single exposure:	May cause respiratory irritation.
STOT - repeated exposure:	Ocular effects (cataracts) have been reported following long-term exposure of laboratory animals.
Carcinogenicity:	Did not show carcinogenic effects in animal experiments.
Reproductive Toxicity:	Did not show reproductive toxicity effects in animal experiments.
Aspiration hazard:	Not classified as an aspiration hazard.
Toxicity of Other Components:	The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the "other components" in the formulation.

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12: ECOLOGICAL INFORMATION

Ecotoxicity:	Chemical name	Invertebrates (Water Flea)	Fish (Rainbow Trout)	Birds (Mallard Duck)
	Diquat dibromide (85-00-7)	LC50/EC50: 1.2 ppm-48 hr.	LC50/EC50: 6.1 ppm-96 hr.	LC50/EC50: 1,570 ppm-5-day dietary

Persistence and degradability: Persistent in soil. Persistent in water; partitions to sediment.

Bio accumulative potential: BCF < 500; does not bioaccumulate.

Mobility in soil: Low mobility in soil.

Other adverse effects: Not applicable.

13: DISPOSAL CONSIDERATIONS

Waste from residue: Refer to the product label for specific disposal/recycling information. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Refer to the product label for specific disposal/recycling information. Empty remaining contents Triple rinse containers Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

14: TRANSPORT INFORMATION**TDG:**

UN Number: UN 1760
 Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat dibromide).
 Transport Hazard Class: Class 8
 Packing Group: PG III
 Environmental Hazard: Corrosive liquid, environmentally hazardous.

IMDG (Transport by sea):

UN Number: UN 1760
 Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat dibromide), Marine Pollutant
 Transport Hazard Class: Class 8
 Packing Group: PG III
 Environmental Hazard: Corrosive liquid, marine pollutant.

IATA (Transport by air):

UN Number: UN 1760
 Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat dibromide).
 Transport Hazard Class: Class 8
 Packing Group: PG III
 Environmental Hazard: Corrosive liquid, environmentally hazardous.

Special Precautions for User: Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

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15: REGULATORY INFORMATION

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

Hazardous Products Act Information:	This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.
Hazardous Products Act Information:	WHMIS 2015 Classification This product is exempt under WHMIS 2015.
Pest Control Products Act (PCPA) Registration No.:	33743 Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product. This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets.
PCPA Label Hazard Communications:	Read the label and booklet before using. Keep out of reach of children. Warning: Poison. Caution: Eye and Skin Irritant.
Allergens Contained in the Pest Control Product:	Not applicable.
NPRI Components:	Not applicable.

PCPA Hazard on Label: PCPA Precautionary Symbol:	Poison 	GHS Hazard Classification: GHS Hazard Symbol:	Acute Toxicity (Inhalation) – Category 3; Acute Toxicity (Oral) – Category 4 
PCPA Signal Word(s): PCPA Hazard Statement:	Warning n/a	GHS Signal Word: GHS Hazard Statement:	Danger Toxic if inhaled. Harmful if swallowed.
PCPA Hazard on Label: PCPA Precautionary Symbol:	Eye Irritant Not applicable.	GHS Hazard GHS Hazard Symbol:	Eye Irritation – Category 2B Not applicable.
PCPA Signal Word(s): PCPA Hazard Statement:	Caution Not applicable.	GHS Signal Word: GHS Hazard Statement:	Warning Causes eye irritation.
PCPA Hazard on Label: PCPA Precautionary Symbol:	Skin Irritant Not applicable.	GHS Hazard GHS Hazard Symbol:	Not applicable. Not applicable.
PCPA Signal Word(s): PCPA Hazard Statement:	Caution Not applicable.	GHS Signal Word: GHS Hazard Statement:	Not applicable. Not applicable.

16: OTHER INFORMATION

WHMIS Classification:	This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant SDS.
Revision Date:	29/04/2020 (Reason: IPCO Logo update)
Notice:	The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Interprovincial Cooperative Limited cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.

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